



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Richard A. Dixon, et al.

Application Serial No. 09/926,571

35 U.S.C. 371

Completion Date: November 28, 2001

International

Filing Date: May 15, 2000

International

Application No: PCT/US00/013389

Confirmation No: 8964

Group Art Unit 1632

For:

ISOFLAVONOID METHYLATION ENZYME

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Assistant Commissioner for Patents
Washington, D.C. 20231

CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to Assistant Commissioner for Patents, Washington, D.C. 20231 on: April 9, 2002 (Date of deposit)

Karen L. Knezek
Registration No. 39,253
Name of Applicant, Assignee, or Registered Representative

Karen L. Knezek
Signature
Date of Signature: April 9, 2002

Dear Sir:

INFORMATION DISCLOSURE STATEMENT

Applicants hereby submit this Information Disclosure Statement pursuant to 37 C.F.R. §1.97(b)(3), or in the alternative, 37 C.F.R. §1.97(c) should the mailing date of the first office action precede the filing of this statement. If the first Office Action occurs before receipt of this document, pursuant to 37 C.F.R. §1.97(c) and §1.17(p), please withdraw the necessary fees from Deposit Account No. 18-1260.

In accordance with the requirements of 37 C.F.R. §§ 1.97 and 1.98, attached please find a Form PTO 1449 listing information for consideration by the Office in

connection with its examination of the above-captioned patent application. Copies of each document listed are enclosed herein.

Applicants submit that no representation is made, and no representation is intended, that more relevant material does not exist, or that the order of presentation of these materials in any way reflects their relative pertinence. The listing on the attached Form PTO-1449 is not intended to constitute an admission of any kind. Specifically, this presentation is not an admission that any of the items listed are properly citable against the above-identified application as prior art.

Respectfully submitted

By: Karen L. Knezek
Karen L. Knezek
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U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE LIST (Use several sheets if necessary)	ATT. DOCKET NO.	SERIAL NO.
	11137/04808	09/926,571
	APPLICANT	
	RICHARD A. DIXON, ET AL	
	FILING DATE	GROUP
	May 15, 2000	1632

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER							DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA	4	7	0	4	4	0	0	11/3/87	Miller, et al	514	454	
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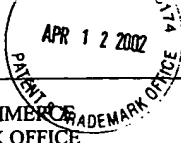
(Including Author, Title, Date, Pertinent Pages, Etc.).

	AR		Adlercreutz, et al. 1991. "Urinary excretion of lignans and isoflavonoid phytoestrogens in Japanese men and women consuming a traditional Japanese diet," <i>Am J Clin Nutr</i> 54: 1093-1100
	AS		Adlercreutz, H. and W. Mazur. 1997. "Phyto-estrogens and western diseases," <i>Ann Med</i> 29: 95-120
	AT		An, G. 1986. "Development of plant promoter expression vectors and their use for analysis of differential activity of nopaline synthase promoter in transformed tobacco cells," <i>Plant Physiol</i> 81: 86-91

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(Including Author, Title, Date, Pertinent Pages, Etc.).

	BR	Angell, S.M. and D.C. Baulcombe. 1997. "Consistent gene silencing in transgenic plants expressing a replicating potato virus X RNA," <i>EMBO J</i> 16: 3675-3684
	BS	Barnes, et al. 1990. "Soybeans inhibit mammary tumors in models of breast cancer." In M.W. Pariza, eds, <i>Mutagens and Carcinogens in the Diet</i> , Wiley-Liss, Inc, New York, pp 239-253
	BT	Batard, et al. 1998. "Molecular cloning and functional expression in yeast of CYP76B1, a xenobiotic-inducible 7-ethoxycoumarin O-de-ethylase from <i>Helianthus tuberosus</i> ," <i>Plant J</i> 14: 111-120

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CR	Bhattacharyya, M.K. and E.W. Ward. 1987. "Biosynthesis and metabolism of glyceollin I in soybean hypocotyls following wounding or inoculation with <i>Phytophthora megasperma</i> f. sp. <i>Glycinea</i> ," <i>Physiol Mol Plant Pathol</i>
	31:387-405
CS	Bourque, J. E. 1995. "Antisense strategies for genetic manipulations in plants," <i>Plant Sci</i> 105: 125-149
CT	Bugos, et al. 1991. "cDNA cloning, sequence analysis and seasonal expression of lignin-bispecific caffeic acid/5-hydroxyferulic acid O-methyltransferase of aspen," <i>Plant Mol Biol</i> 17: 1203-1215

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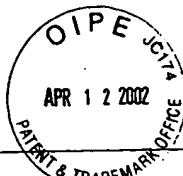
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DR	-	Dalkin, et al. 1990. "Stress responses in alfalfa (<i>Medicago sativa</i> L.) I. Elicitor-induction of phenylpropanoid biosynthesis and hydrolytic enzymes in cell suspension cultures," <i>Plant Physiol</i> 92: 440-446
DS	-	Dewick, P.M. and M. Martin. 1979. "Biosynthesis of pterocarpan, isoflavan and coumestan metabolites of <i>Medicago sativa</i> : chalcone, isoflavone and isoflavanone precursors," <i>Phytochemistry</i> 18: 597-602
DT	-	Dewick, P.M. and Martin, M. 1979. "Biosynthesis of pterocarpan and isoflavan phytoalexins in <i>Medicago sativa</i> : the biochemical interconversion of pterocarpan and 2'-hydroxyisoflavans," <i>Phytochemistry</i> 18: 591-596

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(Including Author, Title, Date, Pertinent Pages, Etc.).		
	ER	Dixon, et al. 1999. "Molecular controls for isoflavonoid biosynthesis in relation to plant and human health," <i>Recent Advances in Phytochemistry</i> 33: 133-160
	ES	Dixon, R.A. 1999. "Isoflavonoids: biochemistry, molecular biology and biological functions." In U. Sankawa, eds, <i>Comprehensive Natural Products Chemistry</i> , Elsevier, pp 773-823
	ET	Dixon, et al. 1998. "Prospects for the metabolic engineering of bioactive flavonoids and related phenylpropanoid compounds," <i>Adv Exp Med and Biolog</i> 439:55-66

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(Including Author, Title, Date, Pertinent Pages, Etc.).		
FR	~	Dixon, R.A. and N.L. Paiva. 1995. "Stress-induced phenylpropanoid metabolism," <i>Plant Cell</i> 7: 1085-1097
FS	~	Dixon, R.A., and M.J. Harrison. 1990. "Activation, structure and organization of genes involved in microbial defense in plants," <i>Adv Gener</i> 28: 165-234
FT	~	Edwards, et al. 1991. "A simple and rapid method for the preparation of plant genomic DNA for PCR analysis," <i>Nucleic Acids Res</i> 19: 1349

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	GR											Frick, S., Kutchan, T.M. 1999. "Molecular cloning and functional expression of O-methyltransferases common to isoquinoline alkaloid and phenylpropanoid biosynthesis," <i>Plant J</i> 17: 329-339
	GS											Gauthier, et al. 1996. "cDNA cloning and characterization of a 3'/5'-O-methyltransferase for partially methylated flavonols from <i>Chrysosplenium americanum</i> ," <i>Plant Mol Biol</i> 32: 1163-1169
	GT											Gauthier, et al. 1998. "Characterization of two cDNA clones which encode O-methyltransferases for the methylation of both flavonoid and phenylpropanoid compounds," <i>Arch Biochem Biophys</i> 351: 243-249
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	HL						
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(Including Author, Title, Date, Pertinent Pages, Etc.).

	HR	Hadwiger, L.A. and D.M. Webster. 1984. "Phytoalexin production in five cultivars of pea differentially resistant to three races of <i>Pseudomonas syringae</i> pv. <i>Pisi</i> ," <i>Phytopathology</i> 74: 1312-1314
	HS	Hakamatsuka, et al. 1991. "P-450-dependent oxidative rearrangement in isoflavone biosynthesis: reconstitution of P-450 and NADPH:P450 reductase", <i>Tetrahedron</i> 47: 5969-5978
	HT	Hakamatsuka, et al. 1998. "Purification of 2-hydroxyisoflavanone dehydratase from the cell cultures of <i>Pueraria lobata</i> ," <i>Phytochemistry</i> 49: 497-505

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	IR	~	He, et al. 1998. "Stress responses in alfalfa (<i>Medicago sativa</i> L.) XXII. cDNA cloning and characterization of an								
			elicitor-inducible isoflavone 7-O-methyltransferase," <i>Plant Mol Biol</i> 36: 43-54								
	IS	•	He, X-Z and R.A. Dixon. 1996. "Affinity chromatography, substrate/product specificity and amino acid sequence								
			analysis of an isoflavone O-methyltransferase from alfalfa (<i>Medicago sativa</i> L.)," <i>Arch Biochem Biophys</i>								
			336: 121-129								
	IT	✓	Higgins, V.J. 1972. "Role of the phytoalexin medicarpin in three leaf spot diseases of alfalfa," <i>Physiol Plant Pathol</i>								
			2: 289-300								
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	JR	-	Horsch, B. et al. 1985. "A simple and general method for transferring genes into plants," <i>Science</i> 227: 1229-1231				
	JS	-	Ibrahim, et al. 1987. "Enzymology and compartmentation of polymethylated flavonol glucosides in <i>Chrysosplenium americanum</i> ," <i>Phytochemistry</i> 26: 1237-1245				
	JT	\	Ibrahim, et al. 1998. "Plant O-methyltransferases: molecular analysis, common signature and classification," <i>Plant Mol Biol</i> 36: 1-10				
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	KR	~	Ingham, et al. 1983. "Fungitoxic isoflavones from <i>Lupinus albus</i> and other <i>Lupinus</i> species," <i>Zeitschrift für Naturforschung</i> , C 38: 194-200
	KS	~	Joshi, C.P. and V.L. Chiang. 1998. "Conserved sequence motifs in plant S-adenosyl-L-methionine-dependent methyltransferases," <i>Plant Mol Biol</i> 37: 663-674
	KT	~	Jung, et al. 2000. "Identification and expression of isoflavone synthase: the key enzyme for biosynthesis of isoflavones in legumes," <i>Nature Biotechnology</i> 18:208-212

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	LR	Kessmann, et al. 1990. "Stress responses in alfalfa (<i>Medicago sativa</i> L.) III. Induction of medicarpin and cytochrome P450 enzyme activities in elicitor-treated cell suspension cultures and protoplasts," <i>Plant Cell Rep</i>					
		9: 38-41					
	LS	Kistler, H.C. and H.D. VanEtten. 1984. "Regulation of pisatin demethylation in <i>Nectria haematococca</i> and its influence on pisatin tolerance and virulence," <i>J Gen Micro</i> 130: 2605-2613					
	LT	Klein, et al. 1988. "Stable genetic transformation of intact <i>Nicotiana</i> cells by the particle bombardment process," <i>Proc Natl Acad Sci USA</i> 85: 8502-8505					
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	MM							
	MN							
	MO							
	MP							
(Including Author, Title, Date, Pertinent Pages, Etc.).								
	MR	-	Kochs, G. and H. Grisebach. 1986. "Enzymic synthesis of isoflavones," <i>Eur J Biochem</i> 155: 311-318					
	MS	-	Lamb, et al. 1992. "Emerging strategies for enhancing crop resistance to microbial pathogens," <i>Bio/technology</i> 10: 1436-1445					
	MT	-	Lee, et al. 1991. "Dietary effects on breast-cancer risk in Singapore," <i>Lancet</i> 337: 1197-1200					
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	NR	Li, et al. 2000. "5-Hydroxyconiferyl aldehyde modulates enzymatic methylation for syringyl monolignol formation, a new view of monolignol biosynthesis in angiosperms," <i>J Biol Chem</i> 275: 6537-6545
	NS	Long, et. al. 1985. "Further studies on the relationship between glyceollin accumulation and the resistance of soybean leaves to <i>Pseudomonas syringae</i> pv. <i>Glycinea</i> ," <i>Phytopathology</i> 75: 235-239
	NT	Matzke, M.A. and A.J. M. Matzke. 1995. "How and why do plants inactivate homologous (trans)genes?" <i>Plant Physiol</i> 107: 679-685

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	OR	Moesta, P. and H. Grisebach. 1982. "L-2-Aminooxy-3-phenylpropionic acid inhibits phytoalexin accumulation in soybean with concomitant loss of resistance against <i>Phytophthora megasperma</i> f. sp. <i>Glycinea</i> ," <i>Physiol Plant</i>
		<i>Pathol</i> 21: 65-70
	OS	Murashige, T. and Skoog, F. 1962. "A revised media for rapid growth and bioassay with tobacco tissue culture,"
		<i>Physiol Plant</i> 15:473-497
	OT	Paiva, et al. 1994. "Regulation of isoflavonoid metabolism in alfalfa," <i>Plant Cell, Tissue and Organ Cult</i>
		38: 213-220

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	PR		Rahe, J.E. 1973. "Occurrence and levels of the phytoalexin phaseollin in relation to delimitation at sites of infection of <i>Phaseolus vulgaris</i> by <i>Colletotrichum lindemuthianum</i> ," <i>Can J Botany</i> 51: 2423-2430									
	PS		Restrepo, et al. 1990. "Nuclear transport of plant polyviral proteins," <i>Plant Cell</i> 2: 987-998									
	PT		Sambrook, et al. 1989. <i>Molecular Cloning. A Laboratory Manual</i> (2nd Ed), Cold Spring Harbor Laboratory Press, New York; pp. 1.53-1.110									
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QR	-	Shorosh, et al. 1994. "Molecular cloning, characterization and elicitation of acetyl-CoA carboxylase in alfalfa,"	
		<i>Proc Natl Acad Sci USA</i> 91:4323-4327	
QS	-	Shutt, D.A. 1976. "The effects of plant oestrogens on animal reproduction," <i>Endeavour</i> 75: 110-113	
QT	.	Steele et al. 1999. "Molecular characterization of the enzyme catalyzing the aryl migration reaction of isoflavonoid biosynthesis in soybean," <i>Arch Biochem Biophys</i> 367: 146-150	

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	RR	-	Sumner, et al. 1996. "High-performance liquid chromatography/continuous-flow liquid secondary ion mass spectrometry of flavonoid glucosides in leguminous plant extracts," <i>J Mass Spectrom</i> 31: 472-485
	RS	✓	Thomas, et al. 1990. "Selection of interspecific somatic hybrids of <i>Medicago</i> by using <i>Agrobacterium</i> - transformed tissue," <i>Plant Sci</i> 69: 189-198
	RT	✓	VanEtten, et al. 1994. "Two classes of plant antibiotics: phytoalexins versus phytoanticipins," <i>The Plant Cell</i> 6:1191-1192

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	SR	←	Wong, E. and C.M. Francis. 1968. "Flavonoids in genotypes of <i>Trifolium subterraneum</i> -II. Mutants of the									
			Geraldton variety," <i>Phytochemistry</i> 7: 2131-2137									
	SS	↘	Yanagihara, et al. 1993. "Antiproliferative effects of isoflavones on human cancer cell lines established from the									
			gastrointestinal tract," <i>Cancer Res</i> 53: 5815-5821									
	ST		Zhou-Jin-Rong, et al. 1998. "Inhibition of murine bladder tumorigenesis by soy isoflavones via alterations in the									
			cell cycle, apoptosis, and angiogenesis," <i>Cancer Res</i> 58: 5231-5238									
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